

POLISHING TOOL

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Abstract

PURPOSE: To make it possible to polish an aspherical surface of a lens die with a high degree of accuracy, by making a conductive film or a cloth foil constituting a negative electrode cope with the aspherical surface, through the intermediary of a resilient material or a polishing fabric so that energization may be made between the negative electrode and the workpieces.

CONSTITUTION: A workpiece 11 is secured on a rotary table 9, and an energization anode terminal slide on the table 9 so that a part to be polished of the workpiece 11 is applied with a constant d.c. voltage irrespective of the rotation of the table 9. Further, a polishing tool moves along the outer surface 8 of the workpiece having an aspherical surface while it vibrates in the direction of A-A, and simultaneously, electric discharge may be made between a film 13 and the workpiece 11. Further, a mixed solution of abrasive grain and electrolyte exists on the outer surface 8 of the workpiece 11 to be subjected to electrolytic machining. Thus, electrolytic polishing and mechanical polishing using the abrasive grain are simultaneously carried out, flexibly coping with the aspherical surface without using various kinds of rigid structure polishing tools, thereby it is possible to provide an ultra-accurate finished surface with no scratches.

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